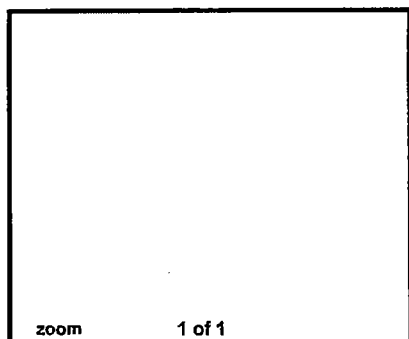


Exhibit D - Page 1

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Sigma



Synonym	1-Methyl-2-pyrrolidone N-Methyl-2-pyrrolidone M-PYROL™ NMP
Molecular Formula	C ₅ H ₉ NO
Molecular Weight	99.13
CAS Number	872-50-4
Beilstein Registry Number	106420
EG/EC Number	2128281
MDL number	MFCD00003193

[Expand/Collapse All](#)**Price and Availability****[Click For Pricing and Availability](#)****Properties**

vapor density	3.4 (vs air)
vapor pressure	0.29 mm Hg (20 °C) 0.99 mm Hg (40 °C)
autolignition temp.	518 °F
expl. lim.	9.5 %
refractive index	<i>n</i> _{20/D} 1.47(lit.)
bp	202 °C(lit.) 81-82 °C/10 mm Hg(lit.)
mp	-24 °C(lit.)
density	1.028 g/mL at 25 °C(lit.)
storage temp.	2-8°C

References

Merck	<i>Merck</i> 13,6140
Beilstein	<i>Beil.</i> 21,V,6,321
Fieser	<i>Fieser</i> 1,696 / <i>Fieser</i> 2,281 / <i>Fieser</i> 9,316
reference	<i>Aldrich MSDS</i> 1, 1304:A / <i>Corp MSDS</i> 1 (2), 2433:A / <i>FT-IR</i> 2 (1), 1337:B / <i>FT-IR</i> 1 (1), 789:C / <i>FT-NMR</i> 1 (1), 1286:A / <i>IR-Spectra</i> (3), 468:F / <i>IR-Spectra</i> (2), 415:G / <i>NMR-Reference</i> 2 (1), 662:A / <i>RegBook</i> 1 (1), 923:E / <i>Sax</i> 6, 1924 / <i>Sigma FT-IR</i> 1 (2), 749:D / <i>Structure Index</i> 1, 143:C:4 / <i>Vapor Phase</i> 3, 788:D

Safety

Hazard Codes	Xi
Risk Statements	36/38
Safety Statements	41
WGK Germany	1
RTECS	UY5790000
F	3-8-10

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FT-IR Ra

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